What is Claimed:

1	1.	A filtering system having a probe for coupling two resonators
2	comprising	
3	an iris h	naving the probe disposed therein coupled between the two
4	resonators; and	
5		be having a transverse opening for receiving a tuning
6	conductor,	
7		the tuning conductor provides adjustable coupling between
8	the two resonators.	
1	2. 1	he system of claim 1 wherein
2	the tuni	ng conductor is grounded at one end and provides a capacitive
3	coupling to ground between the two resonators.	
1	3. ז	he system of claim 1 wherein
2	the tuni	ng conductor is transversely oriented to the probe, and
3		novable in the transverse opening of the probe to provide an
4	adjustable capacitance	between the two resonators.
1	4. T	he system of claim 1 wherein

2	the tuning conductor is a center conductor of a coax line.
1	5. The system of claim 4 wherein
2	the coax line includes an outer dielectric sleeve, a coax shell, and a
3	shrink tubing, each surrounding the tuning conductor.
1	6. The system of claim 1 wherein
2	the tuning conductor is electrically insulated from the probe by a
3	dielectric material.
1	7. The system of claim 1 wherein
2	the tuning conductor is inserted in a transverse opening in a septun
3	separating the two resonators, and
4	the transverse opening of the septum is aligned to the transverse
5	opening of the probe.
l	8. The system of claim 1 wherein
2	the tuning conductor is surrounded by a coax shell, the coax shell
3	electrically connected to the probe, and
ļ	the probe is electrically insulated from the tuning conductor.
	9. The system of claim 1 wherein

2		each of the two resonators includes a resonating rod disposed in a	
3	waveguide se	ction.	
1		10. The system of claim 1 wherein	
2		each of the two resonators includes a waveguide cavity.	
1		11. The system of claim 1 wherein	
2		each of the two resonators includes a dielectric resonator.	
1		12. The system of claim 1 wherein	
2	set screw.	the tuning conductor is adjustably fixed with respect to the probe by a	
5	Set Selew.		
1		13. The system of claim 1 wherein	
2		the probe includes an end disposed in one of the two resonators, and	
3		the end of the probe and the one resonator form a capacitor.	
1		14. The system of claim 1 wherein	
2		the probe includes an end disposed in one of the two resonators, and	
3		the end of the probe is coupled to a ground potential by a wire loop,	
ŀ	the wire loop forming a coil.		

1	15. A filtering system having a plurality of resonators comprising		
2	at least one probe extending between two resonators of the plurality of		
3	resonators, and		
4	a tuning conductor transversely oriented to the probe,		
5	wherein the tuning conductor provides adjustable coupling between		
6	the two resonators.		
1	16. The system of claim 15 wherein		
2	the tuning conductor is grounded at a second		
	the tuning conductor is grounded at one end and provides a variable		
3	capacitance to ground between the two resonators.		
1	17. The system of claim 15 wherein		
2	the tuning conductor is received in a transverse opening of the probe,		
3	and		
4	the tuning conductor is electrically insulated from the probe.		
1	18. The system of claim 15 wherein		
2	the two resonators are separated by a septum, and		
3	the septum includes an iris for supporting the probe between the two resonators.		

1 19. The system of claim 15 wherein each of the two resonators includes a resonating rod disposed in a 2 waveguide section. 3 1 20. The system of claim 15 wherein each of the two resonators includes a dielectric resonator disposed in a 2 resonating cavity. 3 1 21. The system of claim 15 wherein each of the two resonators includes a resonating cavity. 2